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~~MAIL DATE CANCELLED~~

## CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the below date:

Date: June 30, 2005 Name: K. Shannon Mrksich, Ph.D. Signature: *K.S. Mrksich*

**BRINKS  
HOFER  
GILSON  
& LIONE**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. of: RUSTEM F. ISMAGILOV

Appln. No.: 10/765,718

FILED:

January 26, 2004

For:

JUL 05 2005

DEVICE AND METHOD FOR PRESSURE-DRIVEN PLUG TRANSPORT AND REACTION

Attorney Docket No: 7814/95

Examiner:

Art Unit: 1765

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

## TRANSMITTAL

Sir:

## Attached is/are:

- Communication, Certificate of Mailing Dated 2/9/05, Second Supplemental Information Disclosure Statement Dated 2/9/05, PTO Form 1449
- Return Receipt Postcard

## Fee calculation:

- No additional fee is required.
- Small Entity.
- An extension fee in an amount of \$\_\_\_\_\_ for a \_\_\_\_\_-month extension of time under 37 C.F.R. § 1.136(a).
- A petition or processing fee in an amount of \$\_\_\_\_\_ under 37 C.F.R. § 1.17(\_\_\_\_\_.)
- An additional filing fee has been calculated as shown below:

|   | Claims Remaining After Amendment |       | Highest No. Previously Paid For | Present Extra | Small Entity |           | Not a Small Entity |      |
|---|----------------------------------|-------|---------------------------------|---------------|--------------|-----------|--------------------|------|
|   |                                  |       |                                 |               | Rate         | Add'l Fee | or                 | Rate |
| Total                                     |                                  | Minus |                                 |               | x \$25=      |           | x \$50=            |      |
| Indep.                                    |                                  | Minus |                                 |               | x 100=       |           | x \$200=           |      |
| First Presentation of Multiple Dep. Claim |                                  |       |                                 |               | +\$180=      |           | +\$360=            |      |
|   |                                  |       |                                 |               | Total        | \$        | Total              | \$   |

## Fee payment:

- A check in the amount of \$\_\_\_\_\_ is enclosed.
- Please charge Deposit Account No. 23-1925 in the amount of \$\_\_\_\_\_. A copy of this Transmittal is enclosed for this purpose.
- Payment by credit card in the amount of \$\_\_\_\_\_ (Form PTO-2038 is attached).
- The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this paper (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 23-1925.

Respectfully submitted,

June 30, 2005

Date

*S. Mrksich*

K. Shannon Mrksich, Ph.D. (Reg. No. 36,675)



I hereby certify that this correspondence is being deposited with the United States Postal Service, with sufficient postage, as first class mail in an envelope addressed to:

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

on June 30, 2005

Date of Deposit

K. Shannon Mrksich, Ph.D.

Name of applicant, assignee or  
Registered Representative

S. Mrksich

Signature

June 30, 2005

Date of Signature

Our Case No. 7814/95

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
RUSTEM F. ISMAGILOV et al. )  
Serial No. 10/765,718 ) Examiner 1765  
Filing Date: January 26, 2004 ) Group Art Unit No.  
For DEVICE AND METHOD FOR )  
PRESSURE-DRIVEN PLUG )  
TRANSPORT AND REACTION )

**COMMUNICATION**

Commissioner for Patents  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is the Second Supplemental IDS, originally submitted on February 9, 2005 as shown by the Certificate of Mailing.

This submission was treated as a new application due to the erroneous and unfortunate use of a "Utility Patent Application Transmittal." The submission was assigned serial no. 11/055,766 and a filing date of February 9, 2005 (see attached). We have expressly abandoned that serial number in a separate filing.

Please enter this IDS and have it considered by the examiner.

Respectfully submitted,

S. Mrksich  
K. Shannon Mrksich, Ph.D.  
Registration No. 36,675  
Attorney for Applicants

BRINKS HOFER GILSON & LIONE  
P.O. BOX 10395  
CHICAGO, ILLINOIS 60610  
(312) 321-4200



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Appl. of: Rустем F. Ismagilov ET AL.

Appln. No.: 10/765,718

Filed: January 26, 2004

For: DEVICE AND METHOD FOR  
PRESSURE-DRIVEN PLUG  
TRANSPORT AND REACTION

Attorney Docket No: 7814-95

Examiner: N/A

Art Unit: N/A

**INFORMATION DISCLOSURE STATEMENT**

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98, and more particularly in accordance with 37 C.F.R. §1.97(b), Applicants hereby cite the following reference(s):

**Other Art**

NISISAKO, Takasi et al., "Formation of Droplets Using Branch Channels in a Microfluidic Circuit", SICE, August 5-7, 2002, pp. 1262-1264

SEONG, Gi Hun et al., "Efficient Mixing and Reactions Within Microfluidic Channels Using Microbead-Supported Catalysts", JACS Communications, Published on the Web 10/17/2002, pp. 13360-13361

SEONG, Gi Hun et al., "Fabrication of Microchambers Defined by Photopolymerized Hydrogels and Weirs Within Microfluidic Systems: Application to DNA Hybridization", Analytical Chemistry, Vol. 74, No. 14, July 15, 2002, pp. 3372-3377

Applicants are enclosing Form PTO-1449 (one sheet), along with a copy of each listed reference for which a copy is required under 37 C.F.R. §1.98(a)(2). As each of the listed references is in English, no further commentary is believed to be necessary, 37 C.F.R. §1.98(a)(3). Applicants respectfully request the Examiner's consideration of the above reference(s) and entry thereof into the record of this application.

By submitting this Statement, Applicants are attempting to fully comply with the duty of candor and good faith mandated by 37 C.F.R. §1.56. As such, this Statement is not intended to constitute an admission that any of the enclosed references, or other

information referred to therein, constitutes "prior art" or is otherwise "material to patentability," as that phrase is defined in 37 C.F.R. §1.56(a).

Applicants have calculated no fee to be due in connection with the filing of this Statement. However, the Director is authorized to charge any fee deficiency associated with the filing of this Statement to a deposit account, as authorized in the Transmittal accompanying this Statement.

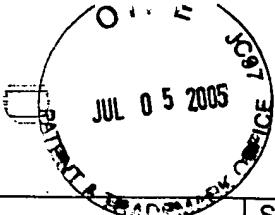
Respectfully submitted,

Feb 9, 2005

Date

John Murray

John Murray, Ph.D. (Reg. No.44,251)



|  |  |                     |
|--|--|---------------------|
| FORM PTO-1449<br><br><b>LIST OF PATENTS AND PUBLICATIONS FOR<br/>APPLICANT'S INFORMATION DISCLOSURE<br/>STATEMENT</b><br><br>(use several sheets if necessary) | SERIAL NO.<br>10/765,718                 | CASE NO.<br>7814-95 |
|  | FILING DATE<br>January 26, 2004          | GROUP ART UNIT      |
|  | APPLICANT(S): Rustem F. Ismagilov et al. |                     |

| EXAMINER<br>INITIAL | OTHER ART - NON PATENT LITERATURE DOCUMENTS<br><i>(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.)</i> |  |
|---------------------|---|--|
|                     |   |  |
| A1                  | NISISAKO, Takasi et al., "Formation of Droplets Using Branch Channels in a Microfluidic Circuit", SICE, August 5-7, 2002, pp. 1262-1264   |  |
| A2                  | SEONG, Gi Hun et al., "Efficient Mixing and Reactions Within Microfluidic Channels Using Microbead-Supported Catalysts", JACS Communications, Published on the Web 10/17/2002, pp. 13360-13361  |  |
| A3                  | SEONG, Gi Hun et al., "Fabrication of Microchambers Defined by Photopolymerized Hydrogels and Weirs Within Microfluidic Systems: Application to DNA Hybridization", Analytical Chemistry, Vol. 74, No. 14, July 15, 2002, pp. 3372-3377   |  |

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.